

STIC-Biotech/ChemLib

172559

From: Switzer, Juliet
Sent: Monday, November 28, 2005 10:35 AM
To: STIC-Biotech/ChemLib
Subject: search request

RECEIVED
NOV 28 2005
STIC-BIOTECH LIB
(STIC)
mg

09979558

please complete a score over length search for seq id no 1 searching for fragments with a maximum hit length of 100 nucleotides and a minimum hit length of 15 are at least 95% identical.

please search seq id no 1 and seq id no 2 in issued, pgpub and interference databases

Thanks.

Juliet Switzer
Art Unit 1634
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mailbox: 2C70

Searcher: Jan
Searcher Phone: 22504
Date Searcher Picked up: 4/28/05
Date completed: 12/5/05
Searcher Prep Time: SS
Online Time: 5:50

Type of Search
NA# ✓ AA#
S/L: ✓ Oligomer:
Encode/Transl:
Structure #: Text:
Inventor: Litigation:

Vendors and cost where applicable
STN:
DIALOG:
QUESTEL/ORBIT:
LEXIS/NEXIS:
SEQUENCE SYSTEM: ✓
WWW/Internet:
Other (Specify):

PGPUB
.rnpbn 5

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 5, 2005, 14:45:36 ; Search time 0.001 Seconds
(without alignments)
289.940 Million cell updates/sec

Title: US-09-979-558A-1
Perfect score: 1526
Sequence: 1 tttgatcatggctccagatt.....acctgaggctggatcacctc 1526

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 5 seqs, 95 residues

Total number of hits satisfying chosen parameters: 10

Minimum DB seq length: 15
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 5 summaries

Database : us-09-979-558a-1.rnpbn4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query		Length	DB	ID	Description
		Match					
1	25	1.6		25	1	US-11-176-795-54	Sequence 54, Appl
2	22	1.4		22	1	US-11-176-795-80	Sequence 80, Appl
3	16.2	1.1		17	1	US-11-152-747-25	Sequence 25, Appl
c 4	16	1.0		16	1	US-11-152-747-24	Sequence 24, Appl
5	15	1.0		15	1	US-11-070-519-176	Sequence 176, App

GenBank
.rge5

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 5, 2005, 14:41:29 ; Search time 9 Seconds
(without alignments)
3.758 Million cell updates/sec

Title: US-09-979-558A-1
Perfect score: 1526
Sequence: 1 tttgatcatggctccagatt.....acctgcggctggatcacctc 1526

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 549 seqs, 11081 residues

Total number of hits satisfying chosen parameters: 1098

Minimum DB seq length: 15
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 549 summaries

Database : us-09-979-558a-1.rge4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	84.4	5.5	86	1	E05149	ACCESSION:E05149
2	57	3.7	59	1	AR358840	ACCESSION:AR358840
3	57	3.7	59	1	AR540396	ACCESSION:AR540396
4	56.4	3.7	58	1	E05143	ACCESSION:E05143
5	52	3.4	52	1	AR154667	ACCESSION:AR154667
6	49.8	3.3	51	1	CQ819522	ACCESSION:CQ819522
7	35.4	2.3	37	1	AX709025	ACCESSION:AX709025
c 8	34.2	2.2	35	1	AX709026	ACCESSION:AX709026
9	34	2.2	34	1	E05164	ACCESSION:E05164
10	33.4	2.2	35	1	A49186	ACCESSION:A49186
11	33.4	2.2	35	1	AR082887	ACCESSION:AR082887
12	32	2.1	32	1	AR089510	ACCESSION:AR089510
c 13	32	2.1	32	1	BD145021	ACCESSION:BD145021
c 14	32	2.1	32	1	BD166073	ACCESSION:BD166073
c 15	32	2.1	32	1	BD179501	ACCESSION:BD179501
c 16	32	2.1	32	1	BD185273	ACCESSION:BD185273
c 17	31.4	2.1	33	1	BD140319	ACCESSION:BD140319
c 18	31.4	2.1	33	1	I71943	ACCESSION:I71943

c	19	30.4	2.0	32	1	BD140315	ACCESSION:BD140315
c	20	27	1.8	27	1	AR062076	ACCESSION:AR062076
c	21	27	1.8	27	1	I40279	ACCESSION:I40279
	22	27	1.8	27	1	I44553	ACCESSION:I44553
c	23	27	1.8	27	1	I44554	ACCESSION:I44554
c	24	27	1.8	27	1	AR206310	ACCESSION:AR206310
c	25	27	1.8	27	1	AR448919	ACCESSION:AR448919
c	26	26	1.7	26	1	AR112109	ACCESSION:AR112109
	27	26	1.7	26	1	AR112110	ACCESSION:AR112110
c	28	26	1.7	26	1	I93509	ACCESSION:I93509
	29	26	1.7	26	1	I93510	ACCESSION:I93510
c	30	26	1.7	26	1	I93515	ACCESSION:I93515
	31	26	1.7	26	1	I93516	ACCESSION:I93516
c	32	26	1.7	26	1	AR678434	ACCESSION:AR678434
c	33	26	1.7	26	1	AR678435	ACCESSION:AR678435
c	34	26	1.7	26	1	AR678436	ACCESSION:AR678436
c	35	26	1.7	26	1	AR678437	ACCESSION:AR678437
c	36	26	1.7	26	1	AR678438	ACCESSION:AR678438
c	37	26	1.7	26	1	AR678439	ACCESSION:AR678439
	38	26	1.7	26	1	AR680175	ACCESSION:AR680175
c	39	26	1.7	26	1	AR680176	ACCESSION:AR680176
c	40	26	1.7	26	1	AR680177	ACCESSION:AR680177
c	41	26	1.7	26	1	AR680178	ACCESSION:AR680178
c	42	26	1.7	26	1	AR680179	ACCESSION:AR680179
c	43	26	1.7	26	1	AR680180	ACCESSION:AR680180
c	44	26	1.7	26	1	AR680181	ACCESSION:AR680181
	45	26	1.7	26	1	AR680182	ACCESSION:AR680182
	46	26	1.7	26	1	AR680183	ACCESSION:AR680183
c	47	26	1.7	26	1	AR680184	ACCESSION:AR680184
c	48	26	1.7	26	1	AR680185	ACCESSION:AR680185
c	49	26	1.7	26	1	AX166827	ACCESSION:AX166827
c	50	26	1.7	26	1	AX166828	ACCESSION:AX166828
c	51	26	1.7	26	1	AX166829	ACCESSION:AX166829
c	52	26	1.7	26	1	AX166830	ACCESSION:AX166830
c	53	26	1.7	26	1	AX166831	ACCESSION:AX166831
c	54	26	1.7	26	1	AX166832	ACCESSION:AX166832
c	55	26	1.7	26	1	AX463301	ACCESSION:AX463301
	56	26	1.7	26	1	AX463302	ACCESSION:AX463302
c	57	26	1.7	26	1	AX616920	ACCESSION:AX616920
c	58	25	1.6	25	1	AR089365	ACCESSION:AR089365
c	59	25	1.6	25	1	AR089511	ACCESSION:AR089511
	60	25	1.6	25	1	AR089512	ACCESSION:AR089512
c	61	25	1.6	25	1	AR093565	ACCESSION:AR093565
	62	25	1.6	25	1	AR374607	ACCESSION:AR374607
	63	25	1.6	25	1	AX430036	ACCESSION:AX430036
	64	24	1.6	24	1	AR154668	ACCESSION:AR154668
c	65	24	1.6	24	1	AR159999	ACCESSION:AR159999
c	66	24	1.6	24	1	E16131	ACCESSION:E16131
	67	24	1.6	24	1	AX036359	ACCESSION:AX036359
	68	24	1.6	24	1	AX036360	ACCESSION:AX036360
	69	24	1.6	24	1	AX036367	ACCESSION:AX036367
	70	24	1.6	24	1	AX036387	ACCESSION:AX036387
	71	24	1.6	24	1	AX036396	ACCESSION:AX036396
	72	24	1.6	24	1	AX036406	ACCESSION:AX036406
	73	24	1.6	24	1	AX036413	ACCESSION:AX036413
	74	24	1.6	24	1	AX036425	ACCESSION:AX036425
	75	24	1.6	24	1	AX036486	ACCESSION:AX036486

	76	24	1.6	24	1	AX036493	ACCESSION:AX036493
	77	24	1.6	24	1	AX036524	ACCESSION:AX036524
	78	24	1.6	24	1	AX036531	ACCESSION:AX036531
	79	24	1.6	24	1	AX224050	ACCESSION:AX224050
c	80	24	1.6	24	1	AX224053	ACCESSION:AX224053
	81	24	1.6	24	1	AX224054	ACCESSION:AX224054
	82	23	1.5	23	1	A48088	ACCESSION:A48088
c	83	23	1.5	23	1	AR092758	ACCESSION:AR092758
	84	23	1.5	23	1	AR177133	ACCESSION:AR177133
	85	23	1.5	23	1	BD205777	ACCESSION:BD205777
	86	23	1.5	23	1	BD205788	ACCESSION:BD205788
	87	23	1.5	23	1	BD205804	ACCESSION:BD205804
	88	23	1.5	23	1	BD205806	ACCESSION:BD205806
	89	23	1.5	23	1	BD205810	ACCESSION:BD205810
	90	23	1.5	23	1	CQ880245	ACCESSION:CQ880245
	91	23	1.5	23	1	CQ945360	ACCESSION:CQ945360
c	92	23	1.5	23	1	AR359140	ACCESSION:AR359140
c	93	23	1.5	23	1	AR428165	ACCESSION:AR428165
	94	23	1.5	23	1	AR594028	ACCESSION:AR594028
	95	23	1.5	23	1	AX010440	ACCESSION:AX010440
	96	23	1.5	23	1	AX010451	ACCESSION:AX010451
	97	23	1.5	23	1	AX010467	ACCESSION:AX010467
	98	23	1.5	23	1	AX010469	ACCESSION:AX010469
	99	23	1.5	23	1	AX010473	ACCESSION:AX010473
c	100	23	1.5	23	1	AX107844	ACCESSION:AX107844
	101	23	1.5	23	1	AX191096	ACCESSION:AX191096
	102	23	1.5	23	1	AX926907	ACCESSION:AX926907
c	103	22.6	1.5	23	1	A98272	ACCESSION:A98272
c	104	22.6	1.5	23	1	BD075012	ACCESSION:BD075012
	105	22.6	1.5	23	1	CQ818174	ACCESSION:CQ818174
c	106	22.6	1.5	23	1	AR478755	ACCESSION:AR478755
	107	22.6	1.5	23	1	AR478759	ACCESSION:AR478759
c	108	22	1.4	22	1	A32448	ACCESSION:A32448
	109	22	1.4	22	1	AR071559	ACCESSION:AR071559
c	110	22	1.4	22	1	AR087544	ACCESSION:AR087544
c	111	22	1.4	22	1	AR159998	ACCESSION:AR159998
	112	22	1.4	22	1	BD205809	ACCESSION:BD205809
	113	22	1.4	22	1	CQ814755	ACCESSION:CQ814755
	114	22	1.4	22	1	CQ818164	ACCESSION:CQ818164
	115	22	1.4	22	1	CQ818177	ACCESSION:CQ818177
c	116	22	1.4	22	1	CQ880248	ACCESSION:CQ880248
c	117	22	1.4	22	1	CQ945363	ACCESSION:CQ945363
	118	22	1.4	22	1	E05158	ACCESSION:E05158
c	119	22	1.4	22	1	E10212	ACCESSION:E10212
c	120	22	1.4	22	1	I19604	ACCESSION:I19604
	121	22	1.4	22	1	I40288	ACCESSION:I40288
c	122	22	1.4	22	1	I44551	ACCESSION:I44551
	123	22	1.4	22	1	AR374633	ACCESSION:AR374633
c	124	22	1.4	22	1	AR452384	ACCESSION:AR452384
	125	22	1.4	22	1	AR478753	ACCESSION:AR478753
	126	22	1.4	22	1	AR478757	ACCESSION:AR478757
	127	22	1.4	22	1	AR526803	ACCESSION:AR526803
	128	22	1.4	22	1	AX010472	ACCESSION:AX010472
c	129	22	1.4	22	1	AX201205	ACCESSION:AX201205
c	130	22	1.4	22	1	AX224047	ACCESSION:AX224047
c	131	22	1.4	22	1	AX224049	ACCESSION:AX224049
	132	22	1.4	22	1	AX256480	ACCESSION:AX256480

133	22	1.4	22	1	AX430062	ACCESSION:AX430062
134	22	1.4	22	1	ASE312411	ACCESSION:AJ312411
135	22	1.4	23	1	AR372756	ACCESSION:AR372756
136	22	1.4	23	1	AX010410	ACCESSION:AX010410
c 137	21.6	1.4	22	1	AR147479	ACCESSION:AR147479
c 138	21.6	1.4	22	1	BD078568	ACCESSION:BD078568
c 139	21.6	1.4	22	1	AX076870	ACCESSION:AX076870
140	21.6	1.4	22	1	AX746435	ACCESSION:AX746435
141	21.2	1.4	22	1	CQ818168	ACCESSION:CQ818168
142	21	1.4	21	1	AR065233	ACCESSION:AR065233
c 143	21	1.4	21	1	BD140325	ACCESSION:BD140325
144	21	1.4	21	1	BD205801	ACCESSION:BD205801
145	21	1.4	21	1	CQ847580	ACCESSION:CQ847580
c 146	21	1.4	21	1	CQ889258	ACCESSION:CQ889258
147	21	1.4	21	1	CS081379	ACCESSION:CS081379
148	21	1.4	21	1	CS084807	ACCESSION:CS084807
149	21	1.4	21	1	I81139	ACCESSION:I81139
c 150	21	1.4	21	1	AR452378	ACCESSION:AR452378
c 151	21	1.4	21	1	AR452379	ACCESSION:AR452379
c 152	21	1.4	21	1	AR452380	ACCESSION:AR452380
c 153	21	1.4	21	1	AR452382	ACCESSION:AR452382
154	21	1.4	21	1	AX010464	ACCESSION:AX010464
c 155	21	1.4	21	1	AX201198	ACCESSION:AX201198
c 156	21	1.4	21	1	AX201199	ACCESSION:AX201199
c 157	21	1.4	21	1	AX201200	ACCESSION:AX201200
c 158	21	1.4	21	1	AX201203	ACCESSION:AX201203
159	21	1.4	21	1	AX402937	ACCESSION:AX402937
160	21	1.4	21	1	AX798228	ACCESSION:AX798228
161	21	1.4	22	1	A16195	ACCESSION:A16195
162	21	1.4	22	1	A16241	ACCESSION:A16241
163	21	1.4	22	1	I23679	ACCESSION:I23679
164	21	1.4	22	1	I23681	ACCESSION:I23681
165	21	1.4	22	1	AR433546	ACCESSION:AR433546
166	21	1.4	22	1	AR433548	ACCESSION:AR433548
c 167	20.6	1.3	21	1	BD078551	ACCESSION:BD078551
c 168	20.6	1.3	21	1	BD167392	ACCESSION:BD167392
c 169	20.6	1.3	21	1	BD170790	ACCESSION:BD170790
c 170	20.6	1.3	21	1	I57963	ACCESSION:I57963
c 171	20.6	1.3	21	1	AR234471	ACCESSION:AR234471
172	20	1.3	20	1	CS000969	ACCESSION:CS000969
c 173	20	1.3	20	1	CS000970	ACCESSION:CS000970
174	20	1.3	20	1	A32031	ACCESSION:A32031
c 175	20	1.3	20	1	A32036	ACCESSION:A32036
c 176	20	1.3	20	1	A44454	ACCESSION:A44454
177	20	1.3	20	1	A44458	ACCESSION:A44458
178	20	1.3	20	1	AR065235	ACCESSION:AR065235
179	20	1.3	20	1	AR071558	ACCESSION:AR071558
180	20	1.3	20	1	AR071560	ACCESSION:AR071560
c 181	20	1.3	20	1	AR089368	ACCESSION:AR089368
c 182	20	1.3	20	1	AR093568	ACCESSION:AR093568
183	20	1.3	20	1	AR127565	ACCESSION:AR127565
184	20	1.3	20	1	AR154161	ACCESSION:AR154161
185	20	1.3	20	1	AR175488	ACCESSION:AR175488
186	20	1.3	20	1	AR179263	ACCESSION:AR179263
c 187	20	1.3	20	1	BD083418	ACCESSION:BD083418
c 188	20	1.3	20	1	BD142909	ACCESSION:BD142909
189	20	1.3	20	1	BD190446	ACCESSION:BD190446

c 190	20	1.3	20	1	BD205778	ACCESSION:BD205778
191	20	1.3	20	1	BD205787	ACCESSION:BD205787
192	20	1.3	20	1	BD205813	ACCESSION:BD205813
193	20	1.3	20	1	BD249371	ACCESSION:BD249371
194	20	1.3	20	1	CQ818178	ACCESSION:CQ818178
195	20	1.3	20	1	E07119	ACCESSION:E07119
196	20	1.3	20	1	E08774	ACCESSION:E08774
c 197	20	1.3	20	1	E10205	ACCESSION:E10205
198	20	1.3	20	1	E16130	ACCESSION:E16130
199	20	1.3	20	1	E16628	ACCESSION:E16628
200	20	1.3	20	1	I12109	ACCESSION:I12109
201	20	1.3	20	1	I40146	ACCESSION:I40146
c 202	20	1.3	20	1	I41053	ACCESSION:I41053
203	20	1.3	20	1	I41279	ACCESSION:I41279
204	20	1.3	20	1	I43082	ACCESSION:I43082
c 205	20	1.3	20	1	I66221	ACCESSION:I66221
c 206	20	1.3	20	1	I66223	ACCESSION:I66223
c 207	20	1.3	20	1	AR203417	ACCESSION:AR203417
208	20	1.3	20	1	AR203421	ACCESSION:AR203421
c 209	20	1.3	20	1	AR236677	ACCESSION:AR236677
210	20	1.3	20	1	AR236681	ACCESSION:AR236681
211	20	1.3	20	1	AR352370	ACCESSION:AR352370
212	20	1.3	20	1	AR371310	ACCESSION:AR371310
213	20	1.3	20	1	AR371312	ACCESSION:AR371312
214	20	1.3	20	1	AR381575	ACCESSION:AR381575
c 215	20	1.3	20	1	AR391374	ACCESSION:AR391374
c 216	20	1.3	20	1	AR452383	ACCESSION:AR452383
c 217	20	1.3	20	1	AR452468	ACCESSION:AR452468
218	20	1.3	20	1	AR474645	ACCESSION:AR474645
c 219	20	1.3	20	1	AR492158	ACCESSION:AR492158
c 220	20	1.3	20	1	AR581244	ACCESSION:AR581244
221	20	1.3	20	1	AR581248	ACCESSION:AR581248
222	20	1.3	20	1	AR642733	ACCESSION:AR642733
c 223	20	1.3	20	1	AX010441	ACCESSION:AX010441
224	20	1.3	20	1	AX010450	ACCESSION:AX010450
c 225	20	1.3	20	1	AX139263	ACCESSION:AX139263
226	20	1.3	20	1	AX139266	ACCESSION:AX139266
c 227	20	1.3	20	1	AX139289	ACCESSION:AX139289
c 228	20	1.3	20	1	AX201204	ACCESSION:AX201204
c 229	20	1.3	20	1	AX201289	ACCESSION:AX201289
c 230	20	1.3	20	1	AX202686	ACCESSION:AX202686
231	20	1.3	20	1	AX256459	ACCESSION:AX256459
c 232	20	1.3	20	1	AX256460	ACCESSION:AX256460
c 233	20	1.3	20	1	AX278387	ACCESSION:AX278387
c 234	20	1.3	20	1	AX521769	ACCESSION:AX521769
c 235	20	1.3	20	1	AX659445	ACCESSION:AX659445
236	20	1.3	20	1	AX701403	ACCESSION:AX701403
237	20	1.3	20	1	AX701404	ACCESSION:AX701404
c 238	20	1.3	20	1	AX701407	ACCESSION:AX701407
239	20	1.3	20	1	AX765790	ACCESSION:AX765790
240	20	1.3	20	1	AX816170	ACCESSION:AX816170
c 241	20	1.3	20	1	AX816171	ACCESSION:AX816171
c 242	20	1.3	20	1	BD013547	ACCESSION:BD013547
243	20	1.3	20	1	BD013550	ACCESSION:BD013550
c 244	20	1.3	20	1	BD013573	ACCESSION:BD013573
245	20	1.3	21	1	BD171796	ACCESSION:BD171796
246	20	1.3	21	1	CS084783	ACCESSION:CS084783

c 247	20	1.3	21	1	AR452377	ACCESSION:AR452377
c 248	20	1.3	21	1	AX201197	ACCESSION:AX201197
249	20	1.3	21	1	AX402913	ACCESSION:AX402913
250	20	1.3	21	1	AX616923	ACCESSION:AX616923
251	20	1.3	21	1	AX765786	ACCESSION:AX765786
c 252	19.6	1.3	20	1	BD078560	ACCESSION:BD078560
c 253	19.6	1.3	20	1	CQ818169	ACCESSION:CQ818169
254	19.6	1.3	20	1	CQ889261	ACCESSION:CQ889261
c 255	19.6	1.3	20	1	AX076876	ACCESSION:AX076876
256	19.2	1.3	20	1	BD078563	ACCESSION:BD078563
257	19.2	1.3	20	1	BD105942	ACCESSION:BD105942
c 258	19.2	1.3	20	1	CQ889262	ACCESSION:CQ889262
c 259	19.2	1.3	20	1	AX076877	ACCESSION:AX076877
c 260	19	1.2	19	1	A58316	ACCESSION:A58316
c 261	19	1.2	19	1	BD061383	ACCESSION:BD061383
c 262	19	1.2	19	1	BD072925	ACCESSION:BD072925
263	19	1.2	19	1	BD072926	ACCESSION:BD072926
c 264	19	1.2	19	1	BD103220	ACCESSION:BD103220
265	19	1.2	19	1	BD107540	ACCESSION:BD107540
c 266	19	1.2	19	1	BD133910	ACCESSION:BD133910
c 267	19	1.2	19	1	BD145087	ACCESSION:BD145087
268	19	1.2	19	1	BD145088	ACCESSION:BD145088
c 269	19	1.2	19	1	BD166094	ACCESSION:BD166094
270	19	1.2	19	1	BD166095	ACCESSION:BD166095
271	19	1.2	19	1	BD166102	ACCESSION:BD166102
c 272	19	1.2	19	1	BD176565	ACCESSION:BD176565
273	19	1.2	19	1	BD205776	ACCESSION:BD205776
274	19	1.2	19	1	BD205802	ACCESSION:BD205802
275	19	1.2	19	1	BD205805	ACCESSION:BD205805
276	19	1.2	19	1	BD205808	ACCESSION:BD205808
c 277	19	1.2	19	1	CQ818165	ACCESSION:CQ818165
c 278	19	1.2	19	1	CS081380	ACCESSION:CS081380
c 279	19	1.2	19	1	CS081395	ACCESSION:CS081395
280	19	1.2	19	1	E03739	ACCESSION:E03739
281	19	1.2	19	1	E05168	ACCESSION:E05168
c 282	19	1.2	19	1	E43771	ACCESSION:E43771
c 283	19	1.2	19	1	E43774	ACCESSION:E43774
c 284	19	1.2	19	1	E58428	ACCESSION:E58428
c 285	19	1.2	19	1	E58430	ACCESSION:E58430
286	19	1.2	19	1	E58431	ACCESSION:E58431
c 287	19	1.2	19	1	I57969	ACCESSION:I57969
c 288	19	1.2	19	1	I82033	ACCESSION:I82033
c 289	19	1.2	19	1	I91721	ACCESSION:I91721
290	19	1.2	19	1	AR203420	ACCESSION:AR203420
291	19	1.2	19	1	AR236680	ACCESSION:AR236680
c 292	19	1.2	19	1	AR264980	ACCESSION:AR264980
293	19	1.2	19	1	AR264981	ACCESSION:AR264981
c 294	19	1.2	19	1	AR361547	ACCESSION:AR361547
c 295	19	1.2	19	1	AR478261	ACCESSION:AR478261
296	19	1.2	19	1	AR478262	ACCESSION:AR478262
c 297	19	1.2	19	1	AR478754	ACCESSION:AR478754
298	19	1.2	19	1	AR478760	ACCESSION:AR478760
299	19	1.2	19	1	AR581247	ACCESSION:AR581247
300	19	1.2	19	1	AX010439	ACCESSION:AX010439
301	19	1.2	19	1	AX010465	ACCESSION:AX010465
302	19	1.2	19	1	AX010468	ACCESSION:AX010468
303	19	1.2	19	1	AX010471	ACCESSION:AX010471

c 304	19	1.2	19	1	AX798229	ACCESSION:AX798229
c 305	19	1.2	19	1	BD013026	ACCESSION:BD013026
c 306	19	1.2	19	1	BD013029	ACCESSION:BD013029
c 307	19	1.2	20	1	BD272415	ACCESSION:BD272415
c 308	19	1.2	20	1	CS065216	ACCESSION:CS065216
309	19	1.2	20	1	AX746436	ACCESSION:AX746436
c 310	18.6	1.2	19	1	BD142901	ACCESSION:BD142901
311	18.6	1.2	19	1	BD142906	ACCESSION:BD142906
312	18.6	1.2	19	1	BD174525	ACCESSION:BD174525
c 313	18.6	1.2	19	1	BD174527	ACCESSION:BD174527
c 314	18.6	1.2	19	1	BD180920	ACCESSION:BD180920
c 315	18.6	1.2	19	1	AX356074	ACCESSION:AX356074
316	18.2	1.2	19	1	CQ819523	ACCESSION:CQ819523
c 317	18.2	1.2	19	1	AX287102	ACCESSION:AX287102
c 318	18	1.2	18	1	PSP011354	ACCESSION:AJ011354
c 319	18	1.2	18	1	A93436	ACCESSION:A93436
c 320	18	1.2	18	1	A93440	ACCESSION:A93440
c 321	18	1.2	18	1	AR016374	ACCESSION:AR016374
322	18	1.2	18	1	AR065149	ACCESSION:AR065149
323	18	1.2	18	1	AR124127	ACCESSION:AR124127
324	18	1.2	18	1	AR130971	ACCESSION:AR130971
325	18	1.2	18	1	BD072934	ACCESSION:BD072934
326	18	1.2	18	1	BD072936	ACCESSION:BD072936
c 327	18	1.2	18	1	BD076710	ACCESSION:BD076710
c 328	18	1.2	18	1	BD134511	ACCESSION:BD134511
329	18	1.2	18	1	BD138826	ACCESSION:BD138826
c 330	18	1.2	18	1	BD171788	ACCESSION:BD171788
c 331	18	1.2	18	1	BD186575	ACCESSION:BD186575
c 332	18	1.2	18	1	CQ854787	ACCESSION:CQ854787
333	18	1.2	18	1	CQ854788	ACCESSION:CQ854788
c 334	18	1.2	18	1	CQ854789	ACCESSION:CQ854789
335	18	1.2	18	1	CS084792	ACCESSION:CS084792
336	18	1.2	18	1	CS084795	ACCESSION:CS084795
337	18	1.2	18	1	E05129	ACCESSION:E05129
338	18	1.2	18	1	E05131	ACCESSION:E05131
c 339	18	1.2	18	1	E10203	ACCESSION:E10203
c 340	18	1.2	18	1	E39115	ACCESSION:E39115
c 341	18	1.2	18	1	E58432	ACCESSION:E58432
342	18	1.2	18	1	E58433	ACCESSION:E58433
343	18	1.2	18	1	I28353	ACCESSION:I28353
c 344	18	1.2	18	1	I57967	ACCESSION:I57967
c 345	18	1.2	18	1	I57968	ACCESSION:I57968
346	18	1.2	18	1	I59498	ACCESSION:I59498
c 347	18	1.2	18	1	I59998	ACCESSION:I59998
c 348	18	1.2	18	1	I86079	ACCESSION:I86079
349	18	1.2	18	1	AR219360	ACCESSION:AR219360
c 350	18	1.2	18	1	AR234482	ACCESSION:AR234482
351	18	1.2	18	1	AR282392	ACCESSION:AR282392
c 352	18	1.2	18	1	AR452487	ACCESSION:AR452487
c 353	18	1.2	18	1	AR592649	ACCESSION:AR592649
c 354	18	1.2	18	1	AX004381	ACCESSION:AX004381
c 355	18	1.2	18	1	AX127688	ACCESSION:AX127688
c 356	18	1.2	18	1	AX140070	ACCESSION:AX140070
357	18	1.2	18	1	AX153693	ACCESSION:AX153693
c 358	18	1.2	18	1	AX201308	ACCESSION:AX201308
359	18	1.2	18	1	AX402922	ACCESSION:AX402922
360	18	1.2	18	1	AX402925	ACCESSION:AX402925

361	18	1.2	18	1	AX701401	ACCESSION:AX701401
c 362	18	1.2	18	1	AX701406	ACCESSION:AX701406
c 363	18	1.2	18	1	AX765787	ACCESSION:AX765787
364	18	1.2	18	1	BD011639	ACCESSION:BD011639
c 365	17.6	1.2	18	1	BD171762	ACCESSION:BD171762
c 366	17.6	1.2	18	1	I57966	ACCESSION:I57966
367	17.6	1.2	18	1	AX076871	ACCESSION:AX076871
c 368	17.6	1.2	18	1	AX202049	ACCESSION:AX202049
c 369	17.6	1.2	18	1	AX202053	ACCESSION:AX202053
c 370	17.6	1.2	18	1	AX202062	ACCESSION:AX202062
c 371	17.6	1.2	18	1	AX202064	ACCESSION:AX202064
c 372	17.6	1.2	18	1	AX718450	ACCESSION:AX718450
c 373	17.2	1.1	18	1	AR075655	ACCESSION:AR075655
c 374	17.2	1.1	18	1	AR140172	ACCESSION:AR140172
c 375	17.2	1.1	18	1	BD078557	ACCESSION:BD078557
c 376	17.2	1.1	18	1	BD105947	ACCESSION:BD105947
c 377	17.2	1.1	18	1	BD139239	ACCESSION:BD139239
378	17.2	1.1	18	1	BD167394	ACCESSION:BD167394
379	17.2	1.1	18	1	BD167398	ACCESSION:BD167398
380	17.2	1.1	18	1	BD170791	ACCESSION:BD170791
c 381	17.2	1.1	18	1	BD170796	ACCESSION:BD170796
c 382	17.2	1.1	18	1	CQ796923	ACCESSION:CQ796923
383	17.2	1.1	18	1	CQ889259	ACCESSION:CQ889259
c 384	17.2	1.1	18	1	CQ889260	ACCESSION:CQ889260
c 385	17.2	1.1	18	1	CS089169	ACCESSION:CS089169
c 386	17.2	1.1	18	1	CS097698	ACCESSION:CS097698
c 387	17.2	1.1	18	1	I13908	ACCESSION:I13908
c 388	17.2	1.1	18	1	AR203419	ACCESSION:AR203419
c 389	17.2	1.1	18	1	AR236679	ACCESSION:AR236679
c 390	17.2	1.1	18	1	AR492161	ACCESSION:AR492161
c 391	17.2	1.1	18	1	AR580577	ACCESSION:AR580577
392	17.2	1.1	18	1	AR580578	ACCESSION:AR580578
c 393	17.2	1.1	18	1	AR581246	ACCESSION:AR581246
c 394	17.2	1.1	18	1	AX316107	ACCESSION:AX316107
c 395	17	1.1	17	1	A44457	ACCESSION:A44457
396	17	1.1	17	1	AR130972	ACCESSION:AR130972
397	17	1.1	17	1	BD134510	ACCESSION:BD134510
398	17	1.1	17	1	BD138827	ACCESSION:BD138827
c 399	17	1.1	17	1	BD143112	ACCESSION:BD143112
400	17	1.1	17	1	BD186573	ACCESSION:BD186573
401	17	1.1	17	1	BD223840	ACCESSION:BD223840
402	17	1.1	17	1	CQ847584	ACCESSION:CQ847584
403	17	1.1	17	1	CQ976057	ACCESSION:CQ976057
c 404	17	1.1	17	1	CS063002	ACCESSION:CS063002
c 405	17	1.1	17	1	I43083	ACCESSION:I43083
406	17	1.1	17	1	I57964	ACCESSION:I57964
c 407	17	1.1	17	1	I65464	ACCESSION:I65464
c 408	17	1.1	17	1	I66476	ACCESSION:I66476
409	17	1.1	17	1	AR219361	ACCESSION:AR219361
410	17	1.1	17	1	AR492159	ACCESSION:AR492159
c 411	17	1.1	17	1	AR595539	ACCESSION:AR595539
c 412	17	1.1	17	1	AR633594	ACCESSION:AR633594
c 413	17	1.1	17	1	AX256451	ACCESSION:AX256451
414	17	1.1	17	1	AX256453	ACCESSION:AX256453
c 415	17	1.1	17	1	AX616921	ACCESSION:AX616921
c 416	17	1.1	17	1	AX746434	ACCESSION:AX746434
417	17	1.1	17	1	AX746437	ACCESSION:AX746437

418	17	1.1	17	1	AX752082	ACCESSION:AX752082
c 419	16.6	1.1	17	1	AR012177	ACCESSION:AR012177
c 420	16.6	1.1	17	1	AR093760	ACCESSION:AR093760
c 421	16.6	1.1	17	1	BD174529	ACCESSION:BD174529
c 422	16.6	1.1	17	1	BD211232	ACCESSION:BD211232
c 423	16.6	1.1	17	1	E36557	ACCESSION:E36557
c 424	16.6	1.1	17	1	AR225608	ACCESSION:AR225608
c 425	16.6	1.1	17	1	AR492156	ACCESSION:AR492156
c 426	16.6	1.1	17	1	AX358554	ACCESSION:AX358554
c 427	16.6	1.1	17	1	AX492850	ACCESSION:AX492850
428	16.2	1.1	17	1	AR129883	ACCESSION:AR129883
429	16.2	1.1	17	1	AR235833	ACCESSION:AR235833
430	16.2	1.1	17	1	AR268433	ACCESSION:AR268433
431	16.2	1.1	17	1	AR306448	ACCESSION:AR306448
432	16.2	1.1	17	1	AR381571	ACCESSION:AR381571
c 433	16.2	1.1	17	1	AR381576	ACCESSION:AR381576
434	16.2	1.1	17	1	AR583502	ACCESSION:AR583502
435	16.2	1.1	17	1	AX395004	ACCESSION:AX395004
436	16.2	1.1	17	1	AX548652	ACCESSION:AX548652
437	16	1.0	16	1	AR041133	ACCESSION:AR041133
438	16	1.0	16	1	AR062077	ACCESSION:AR062077
439	16	1.0	16	1	AR124129	ACCESSION:AR124129
440	16	1.0	16	1	AR124130	ACCESSION:AR124130
c 441	16	1.0	16	1	AR129882	ACCESSION:AR129882
c 442	16	1.0	16	1	AR166033	ACCESSION:AR166033
443	16	1.0	16	1	BD078565	ACCESSION:BD078565
c 444	16	1.0	16	1	BD134512	ACCESSION:BD134512
445	16	1.0	16	1	BD186574	ACCESSION:BD186574
446	16	1.0	16	1	CQ854790	ACCESSION:CQ854790
c 447	16	1.0	16	1	E10201	ACCESSION:E10201
448	16	1.0	16	1	E10204	ACCESSION:E10204
449	16	1.0	16	1	E10209	ACCESSION:E10209
450	16	1.0	16	1	E10211	ACCESSION:E10211
451	16	1.0	16	1	E34175	ACCESSION:E34175
452	16	1.0	16	1	E58435	ACCESSION:E58435
453	16	1.0	16	1	I82060	ACCESSION:I82060
454	16	1.0	16	1	I82063	ACCESSION:I82063
c 455	16	1.0	16	1	AR203418	ACCESSION:AR203418
456	16	1.0	16	1	AR206311	ACCESSION:AR206311
c 457	16	1.0	16	1	AR235832	ACCESSION:AR235832
c 458	16	1.0	16	1	AR236678	ACCESSION:AR236678
c 459	16	1.0	16	1	AR268432	ACCESSION:AR268432
460	16	1.0	16	1	AR282394	ACCESSION:AR282394
461	16	1.0	16	1	AR282395	ACCESSION:AR282395
c 462	16	1.0	16	1	AR306447	ACCESSION:AR306447
463	16	1.0	16	1	AR369339	ACCESSION:AR369339
c 464	16	1.0	16	1	AR381570	ACCESSION:AR381570
465	16	1.0	16	1	AR391394	ACCESSION:AR391394
466	16	1.0	16	1	AR391456	ACCESSION:AR391456
c 467	16	1.0	16	1	AR391520	ACCESSION:AR391520
468	16	1.0	16	1	AR408902	ACCESSION:AR408902
c 469	16	1.0	16	1	AR433392	ACCESSION:AR433392
470	16	1.0	16	1	AR448920	ACCESSION:AR448920
471	16	1.0	16	1	AR492157	ACCESSION:AR492157
c 472	16	1.0	16	1	AR581245	ACCESSION:AR581245
c 473	16	1.0	16	1	AR583501	ACCESSION:AR583501
474	16	1.0	16	1	AR584696	ACCESSION:AR584696

c 475	16	1.0	16	1	AR678440	ACCESSION:AR678440
c 476	16	1.0	16	1	AR678441	ACCESSION:AR678441
c 477	16	1.0	16	1	AX166833	ACCESSION:AX166833
c 478	16	1.0	16	1	AX166834	ACCESSION:AX166834
479	16	1.0	16	1	AX167401	ACCESSION:AX167401
480	16	1.0	16	1	AX256455	ACCESSION:AX256455
481	16	1.0	16	1	AX281874	ACCESSION:AX281874
482	16	1.0	16	1	AX281936	ACCESSION:AX281936
c 483	16	1.0	16	1	AX282000	ACCESSION:AX282000
c 484	16	1.0	16	1	AX395003	ACCESSION:AX395003
c 485	16	1.0	16	1	AX548651	ACCESSION:AX548651
c 486	16	1.0	16	1	AX962281	ACCESSION:AX962281
487	15.6	1.0	16	1	AR147478	ACCESSION:AR147478
488	15.6	1.0	16	1	BD078558	ACCESSION:BD078558
489	15.6	1.0	16	1	BD105941	ACCESSION:BD105941
490	15.6	1.0	16	1	I21573	ACCESSION:I21573
c 491	15.2	1.0	16	1	BD078555	ACCESSION:BD078555
492	15	1.0	15	1	A93439	ACCESSION:A93439
493	15	1.0	15	1	AR008330	ACCESSION:AR008330
494	15	1.0	15	1	AR071544	ACCESSION:AR071544
495	15	1.0	15	1	AR086364	ACCESSION:AR086364
c 496	15	1.0	15	1	AR104961	ACCESSION:AR104961
497	15	1.0	15	1	AR124125	ACCESSION:AR124125
c 498	15	1.0	15	1	AR154162	ACCESSION:AR154162
c 499	15	1.0	15	1	AR166034	ACCESSION:AR166034
c 500	15	1.0	15	1	AR167433	ACCESSION:AR167433
c 501	15	1.0	15	1	AR175489	ACCESSION:AR175489
c 502	15	1.0	15	1	AR179264	ACCESSION:AR179264
c 503	15	1.0	15	1	BD078564	ACCESSION:BD078564
c 504	15	1.0	15	1	BD105946	ACCESSION:BD105946
c 505	15	1.0	15	1	BD190447	ACCESSION:BD190447
c 506	15	1.0	15	1	BD231436	ACCESSION:BD231436
c 507	15	1.0	15	1	BD249372	ACCESSION:BD249372
508	15	1.0	15	1	CQ854786	ACCESSION:CQ854786
c 509	15	1.0	15	1	E05130	ACCESSION:E05130
510	15	1.0	15	1	E05132	ACCESSION:E05132
c 511	15	1.0	15	1	E10208	ACCESSION:E10208
c 512	15	1.0	15	1	E10210	ACCESSION:E10210
c 513	15	1.0	15	1	I57965	ACCESSION:I57965
c 514	15	1.0	15	1	AR203416	ACCESSION:AR203416
c 515	15	1.0	15	1	AR236676	ACCESSION:AR236676
516	15	1.0	15	1	AR282390	ACCESSION:AR282390
c 517	15	1.0	15	1	AR352371	ACCESSION:AR352371
518	15	1.0	15	1	AR371309	ACCESSION:AR371309
519	15	1.0	15	1	AR371313	ACCESSION:AR371313
520	15	1.0	15	1	AR371314	ACCESSION:AR371314
521	15	1.0	15	1	AR371315	ACCESSION:AR371315
c 522	15	1.0	15	1	AR408901	ACCESSION:AR408901
c 523	15	1.0	15	1	AR433393	ACCESSION:AR433393
524	15	1.0	15	1	AR492162	ACCESSION:AR492162
c 525	15	1.0	15	1	AR492163	ACCESSION:AR492163
526	15	1.0	15	1	AR532247	ACCESSION:AR532247
c 527	15	1.0	15	1	AR560428	ACCESSION:AR560428
c 528	15	1.0	15	1	AR581243	ACCESSION:AR581243
c 529	15	1.0	15	1	AR584695	ACCESSION:AR584695
530	15	1.0	15	1	AR615894	ACCESSION:AR615894
c 531	15	1.0	15	1	AR642734	ACCESSION:AR642734

532	15	1.0	15	1	AX139227	ACCESSION:AX139227
533	15	1.0	15	1	AX139228	ACCESSION:AX139228
c 534	15	1.0	15	1	AX153677	ACCESSION:AX153677
c 535	15	1.0	15	1	AX167400	ACCESSION:AX167400
536	15	1.0	15	1	AX526967	ACCESSION:AX526967
c 537	15	1.0	15	1	AX752083	ACCESSION:AX752083
c 538	15	1.0	15	1	BD005889	ACCESSION:BD005889
539	15	1.0	15	1	BD013511	ACCESSION:BD013511
540	15	1.0	15	1	BD013512	ACCESSION:BD013512
c 541	14.6	1.0	15	1	A30653	ACCESSION:A30653
542	14.6	1.0	15	1	A30654	ACCESSION:A30654
c 543	14.6	1.0	15	1	A30655	ACCESSION:A30655
544	14.6	1.0	15	1	A30656	ACCESSION:A30656
c 545	14.6	1.0	15	1	A30657	ACCESSION:A30657
546	14.6	1.0	15	1	A30658	ACCESSION:A30658
c 547	14.6	1.0	15	1	AR107912	ACCESSION:AR107912
c 548	14.6	1.0	15	1	BD078566	ACCESSION:BD078566
c 549	14.6	1.0	15	1	BD105945	ACCESSION:BD105945

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OM nucleic - nucleic search, using sw model

Run on: December 5, 2005, 14:47:07 ; Search time 5 Seconds
(without alignments)
3.743 Million cell updates/sec

Title: US-09-979-558A-1
Perfect score: 1526
Sequence: 1 ttgatcatggctccagatt.....acctgcggctggatcacctc 1526

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 308 seqs, 6132 residues

Total number of hits satisfying chosen parameters: 616

Minimum DB seq length: 15
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 308 summaries

Database : us-09-979-558a-1.rni4:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result	Score	Match	Length	DB	ID	Description
No.		%				
1	57	3.7	59	1	US-08-956-171E-4958	Sequence 4958, Ap
2	57	3.7	59	1	US-08-781-986A-4958	Sequence 4958, Ap
3	<u>52</u>	<u>3.4</u>	<u>52</u>	<u>1</u>	<u>US-09-411-777A-110/4/99 maybe 98</u>	Sequence 1, Appli
4	34	2.2	34	1	US-09-052-333A-44	Sequence 44, Appl
5	33.4	2.2	35	1	US-08-632-470-20	Sequence 20, Appl
6	32	2.1	32	1	US-08-743-637B-269	Sequence 269, App
c 7	31.4	2.1	33	1	US-07-936-533A-9	Sequence 9, Appli
8	31.4	2.1	33	1	US-07-936-533A-36	Sequence 36, Appl
c 9	31.4	2.1	33	1	US-08-344-257A-9	Sequence 9, Appli
c 10	27	1.8	27	1	US-08-244-269-37	Sequence 37, Appl
11	27	1.8	27	1	US-08-348-683-8	Sequence 8, Appli
c 12	27	1.8	27	1	US-08-348-683-9	Sequence 9, Appli
c 13	27	1.8	27	1	US-08-757-653-155	Sequence 155, App
c 14	27	1.8	27	1	US-08-520-946-155	Sequence 155, App
c 15	27	1.8	27	1	US-09-655-378A-155	Sequence 155, App
c 16	26	1.7	26	1	US-08-478-221-5	Sequence 5, Appli
17	26	1.7	26	1	US-08-478-221-6	Sequence 6, Appli

c	18	26	1.7	26	1	US-08-478-221-11	Sequence 11, Appl
	19	26	1.7	26	1	US-08-478-221-12	Sequence 12, Appl
c	20	26	1.7	26	1	US-08-475-334-1	Sequence 1, Appli
	21	26	1.7	26	1	US-08-475-334-2	Sequence 2, Appli
c	22	26	1.7	26	1	US-09-094-139-1	Sequence 1, Appli
	23	26	1.7	26	1	US-09-094-139-2	Sequence 2, Appli
c	24	26	1.7	26	1	US-08-893-300-1	Sequence 1, Appli
	25	26	1.7	26	1	US-08-893-300-2	Sequence 2, Appli
c	26	26	1.7	26	1	US-09-736-151-4	Sequence 4, Appli
c	27	26	1.7	26	1	US-09-736-151-5	Sequence 5, Appli
c	28	26	1.7	26	1	US-09-736-151-6	Sequence 6, Appli
c	29	26	1.7	26	1	US-09-736-151-7	Sequence 7, Appli
c	30	26	1.7	26	1	US-09-736-151-8	Sequence 8, Appli
c	31	26	1.7	26	1	US-09-736-151-9	Sequence 9, Appli
	32	26	1.7	26	1	US-09-523-237B-1	Sequence 1, Appli
c	33	26	1.7	26	1	US-09-523-237B-2	Sequence 2, Appli
c	34	26	1.7	26	1	US-09-523-237B-3	Sequence 3, Appli
c	35	26	1.7	26	1	US-09-523-237B-4	Sequence 4, Appli
c	36	26	1.7	26	1	US-09-523-237B-5	Sequence 5, Appli
c	37	26	1.7	26	1	US-09-523-237B-6	Sequence 6, Appli
c	38	26	1.7	26	1	US-09-523-237B-7	Sequence 7, Appli
	39	26	1.7	26	1	US-09-523-237B-8	Sequence 8, Appli
	40	26	1.7	26	1	US-09-523-237B-9	Sequence 9, Appli
c	41	26	1.7	26	1	US-09-523-237B-10	Sequence 10, Appl
c	42	26	1.7	26	1	US-09-523-237B-11	Sequence 11, Appl
c	43	25	1.6	25	1	US-08-743-637B-124	Sequence 124, App
c	44	25	1.6	25	1	US-08-743-637B-270	Sequence 270, App
	45	25	1.6	25	1	US-08-743-637B-271	Sequence 271, App
c	46	25	1.6	25	1	US-08-526-840B-124	Sequence 124, App
	47	25	1.6	25	1	US-09-589-560B-54	Sequence 54, Appl
	48	24	1.6	24	1	US-09-073-465-9	Sequence 9, Appli
	49	24	1.6	24	1	US-09-073-465-10	Sequence 10, Appl
	50	24	1.6	24	1	US-09-411-777A-2	Sequence 2, Appli
c	51	24	1.6	24	1	US-09-200-126-3	Sequence 3, Appli
c	52	23	1.5	23	1	US-08-778-217-8	Sequence 8, Appli
c	53	23	1.5	23	1	US-08-821-948-8	Sequence 8, Appli
	54	23	1.5	23	1	US-08-765-332-155	Sequence 155, App
	55	23	1.5	23	1	US-09-448-894-155	Sequence 155, App
c	56	23	1.5	23	1	US-09-397-955C-8	Sequence 8, Appli
c	57	23	1.5	23	1	US-09-270-957-44	Sequence 44, Appl
	58	23	1.5	23	1	US-09-931-486-155	Sequence 155, App
c	59	22.6	1.5	23	1	US-10-085-134A-3	Sequence 3, Appli
	60	22.6	1.5	23	1	US-10-085-134A-7	Sequence 7, Appli
c	61	22	1.4	22	1	US-08-273-776-5	Sequence 5, Appli
	62	22	1.4	22	1	US-08-244-269-46	Sequence 46, Appl
c	63	22	1.4	22	1	US-08-348-683-6	Sequence 6, Appli
	64	22	1.4	22	1	US-07-923-871C-26	Sequence 26, Appl
c	65	22	1.4	22	1	US-08-598-607-1	Sequence 1, Appli
c	66	22	1.4	22	1	US-09-073-465-11	Sequence 11, Appl
c	67	22	1.4	22	1	US-09-200-126-2	Sequence 2, Appli
	68	22	1.4	22	1	US-09-589-560B-80	Sequence 80, Appl
c	69	22	1.4	22	1	US-09-726-774-30	Sequence 30, Appl
	70	22	1.4	22	1	US-10-085-134A-1	Sequence 1, Appli
	71	22	1.4	22	1	US-10-085-134A-5	Sequence 5, Appli
	72	22	1.4	22	1	US-09-634-960A-38	Sequence 38, Appl
	73	22	1.4	22	1	PCT-US91-01574-26	Sequence 26, Appl
	74	22	1.4	23	1	US-09-700-486-2	Sequence 2, Appli

c	75	21.6	1.4	22	1	US-08-995-960-18	Sequence 18, Appl
c	76	21.6	1.4	22	1	US-08-953-171-39	Sequence 39, Appl
c	77	21.6	1.4	22	1	US-09-193-377B-61	Sequence 61, Appl
	78	21	1.4	21	1	US-08-488-144-27	Sequence 27, Appl
	79	21	1.4	21	1	US-08-832-449A-2	Sequence 2, Appli
c	80	21	1.4	21	1	US-09-726-774-23	Sequence 23, Appl
c	81	21	1.4	21	1	US-09-726-774-24	Sequence 24, Appl
c	82	21	1.4	21	1	US-09-726-774-25	Sequence 25, Appl
c	83	21	1.4	21	1	US-09-726-774-28	Sequence 28, Appl
	84	21	1.4	22	1	US-08-412-614-101	Sequence 101, App
	85	21	1.4	22	1	US-08-412-614-103	Sequence 103, App
	86	21	1.4	22	1	US-08-635-761-101	Sequence 101, App
	87	21	1.4	22	1	US-08-635-761-103	Sequence 103, App
	88	21	1.4	22	1	US-09-312-520-101	Sequence 101, App
	89	21	1.4	22	1	US-09-312-520-103	Sequence 103, App
	90	21	1.4	22	1	US-09-863-086-101	Sequence 101, App
	91	21	1.4	22	1	US-09-863-086-103	Sequence 103, App
c	92	20.6	1.3	21	1	US-08-266-414-3	Sequence 3, Appli
c	93	20.6	1.3	21	1	US-08-953-171-22	Sequence 22, Appl
c	94	20.6	1.3	21	1	US-09-261-115-4	Sequence 4, Appli
	95	20	1.3	20	1	US-07-971-819A-14	Sequence 14, Appl
	96	20	1.3	20	1	US-08-384-490-28	Sequence 28, Appl
c	97	20	1.3	20	1	US-08-170-689-4	Sequence 4, Appli
	98	20	1.3	20	1	US-08-475-231-14	Sequence 14, Appl
	99	20	1.3	20	1	US-08-242-403A-65	Sequence 65, Appl
c	100	20	1.3	20	1	US-08-263-072A-2	Sequence 2, Appli
c	101	20	1.3	20	1	US-08-263-072A-4	Sequence 4, Appli
	102	20	1.3	20	1	US-08-459-383-28	Sequence 28, Appl
	103	20	1.3	20	1	US-08-774-128-65	Sequence 65, Appl
	104	20	1.3	20	1	US-08-832-449A-4	Sequence 4, Appli
	105	20	1.3	20	1	US-07-923-871C-25	Sequence 25, Appl
	106	20	1.3	20	1	US-07-923-871C-27	Sequence 27, Appl
	107	20	1.3	20	1	US-08-812-105-2	Sequence 2, Appli
c	108	20	1.3	20	1	US-08-743-637B-127	Sequence 127, App
c	109	20	1.3	20	1	US-08-526-840B-127	Sequence 127, App
c	110	20	1.3	20	1	US-08-782-798-4	Sequence 4, Appli
	111	20	1.3	20	1	US-09-183-092-2	Sequence 2, Appli
c	112	20	1.3	20	1	US-09-311-260-24	Sequence 24, Appl
c	113	20	1.3	20	1	US-09-311-260-26	Sequence 26, Appl
c	114	20	1.3	20	1	US-09-311-260-28	Sequence 28, Appl
c	115	20	1.3	20	1	US-09-311-260-30	Sequence 30, Appl
	116	20	1.3	20	1	US-09-290-577-1	Sequence 1, Appli
	117	20	1.3	20	1	US-09-290-452-1	Sequence 1, Appli
	118	20	1.3	20	1	US-09-290-338-1	Sequence 1, Appli
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	120	20	1.3	20	1	US-09-504-358-37	Sequence 37, Appl
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	122	20	1.3	20	1	US-08-461-210-6	Sequence 6, Appli
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	124	20	1.3	20	1	US-09-954-314-37	Sequence 37, Appl
	125	20	1.3	20	1	US-09-290-000-1	Sequence 1, Appli
	126	20	1.3	20	1	US-09-954-594A-1	Sequence 1, Appli
	127	20	1.3	20	1	US-09-735-567-14	Sequence 14, Appl
c	128	20	1.3	20	1	US-09-689-937-2	Sequence 2, Appli
c	129	20	1.3	20	1	US-09-726-774-29	Sequence 29, Appl
c	130	20	1.3	20	1	US-09-726-774-114	Sequence 114, App
	131	20	1.3	20	1	US-09-550-817-2	Sequence 2, Appli

c 132	20	1.3	20	1	US-10-085-871C-6	Sequence 6, Appli
c 133	20	1.3	20	1	US-10-230-562-33	Sequence 33, Appl
134	20	1.3	20	1	US-10-230-562-37	Sequence 37, Appl
135	20	1.3	20	1	US-09-865-807-1	Sequence 1, Appli
136	20	1.3	20	1	PCT-US91-01574-25	Sequence 25, Appl
137	20	1.3	20	1	PCT-US91-01574-27	Sequence 27, Appl
138	20	1.3	20	1	PCT-US95-05602-65	Sequence 65, Appl
139	20	1.3	20	1	PCT-US95-05816-65	Sequence 65, Appl
c 140	20	1.3	21	1	US-09-726-774-22	Sequence 22, Appl
c 141	19.6	1.3	20	1	US-08-953-171-31	Sequence 31, Appl
142	19.6	1.3	20	1	US-09-311-260-23	Sequence 23, Appl
143	19.2	1.3	20	1	US-08-953-171-34	Sequence 34, Appl
c 144	19.2	1.3	20	1	US-09-311-260-146	Sequence 146, App
c 145	19	1.2	19	1	US-08-266-414-9	Sequence 9, Appli
c 146	19	1.2	19	1	US-08-485-602-72	Sequence 72, Appl
c 147	19	1.2	19	1	US-08-757-180-71	Sequence 71, Appl
c 148	19	1.2	19	1	US-08-745-638-72	Sequence 72, Appl
149	19	1.2	19	1	US-09-504-358-36	Sequence 36, Appl
150	19	1.2	19	1	US-09-954-314-36	Sequence 36, Appl
c 151	19	1.2	19	1	US-09-725-265-64	Sequence 64, Appl
152	19	1.2	19	1	US-09-725-265-65	Sequence 65, Appl
c 153	19	1.2	19	1	US-09-924-097A-17	Sequence 17, Appl
c 154	19	1.2	19	1	US-09-556-127-64	Sequence 64, Appl
155	19	1.2	19	1	US-09-556-127-65	Sequence 65, Appl
c 156	19	1.2	19	1	US-10-085-134A-2	Sequence 2, Appli
157	19	1.2	19	1	US-10-085-134A-8	Sequence 8, Appli
158	19	1.2	19	1	US-10-230-562-36	Sequence 36, Appl
c 159	19	1.2	19	1	PCT-US92-02976-7	Sequence 7, Appli
c 160	18.6	1.2	19	1	US-09-557-248-4	Sequence 4, Appli
161	18	1.2	18	1	US-08-227-475-5	Sequence 5, Appli
c 162	18	1.2	18	1	US-08-266-414-7	Sequence 7, Appli
c 163	18	1.2	18	1	US-08-266-414-8	Sequence 8, Appli
164	18	1.2	18	1	US-08-433-551-2	Sequence 2, Appli
c 165	18	1.2	18	1	US-08-460-344-53	Sequence 53, Appl
c 166	18	1.2	18	1	US-08-133-598A-53	Sequence 53, Appl
c 167	18	1.2	18	1	US-08-886-999-53	Sequence 53, Appl
168	18	1.2	18	1	US-08-607-384A-36	Sequence 36, Appl
169	18	1.2	18	1	US-09-073-465-6	Sequence 6, Appli
c 170	18	1.2	18	1	US-09-073-465-7	Sequence 7, Appli
171	18	1.2	18	1	US-09-073-465-12	Sequence 12, Appl
c 172	18	1.2	18	1	US-09-073-465-13	Sequence 13, Appl
173	18	1.2	18	1	US-09-252-806-6	Sequence 6, Appli
174	18	1.2	18	1	US-08-979-586-1	Sequence 1, Appli
175	18	1.2	18	1	US-09-311-260-25	Sequence 25, Appl
176	18	1.2	18	1	US-09-577-640-1	Sequence 1, Appli
c 177	18	1.2	18	1	US-09-261-115-15	Sequence 15, Appl
178	18	1.2	18	1	US-09-711-508-6	Sequence 6, Appli
c 179	18	1.2	18	1	US-09-726-774-133	Sequence 133, App
c 180	18	1.2	18	1	US-09-529-217-3	Sequence 3, Appli
c 181	18	1.2	18	1	PCT-US92-02976-6	Sequence 6, Appli
c 182	18	1.2	18	1	PCT-US93-05085-52	Sequence 52, Appl
c 183	17.6	1.2	18	1	US-08-266-414-6	Sequence 6, Appli
c 184	17.2	1.1	18	1	US-08-093-884-16	Sequence 16, Appl
c 185	17.2	1.1	18	1	US-08-861-096A-39	Sequence 39, Appl
c 186	17.2	1.1	18	1	US-08-953-171-28	Sequence 28, Appl
c 187	17.2	1.1	18	1	US-09-216-909-6	Sequence 6, Appli
c 188	17.2	1.1	18	1	US-09-702-843-6	Sequence 6, Appli

c 189	17.2	1.1	18	1	US-09-702-847-6	Sequence 6, Appli
c 190	17.2	1.1	18	1	US-09-504-358-35	Sequence 35, Appl
c 191	17.2	1.1	18	1	US-09-954-314-35	Sequence 35, Appl
c 192	17.2	1.1	18	1	US-10-085-871C-9	Sequence 9, Appli
c 193	17.2	1.1	18	1	US-09-780-113D-1	Sequence 1, Appli
194	17.2	1.1	18	1	US-09-780-113D-2	Sequence 2, Appli
c 195	17.2	1.1	18	1	US-10-230-562-35	Sequence 35, Appl
196	17.2	1.1	18	1	US-10-053-243-5	Sequence 5, Appli
c 197	17.2	1.1	18	1	US-10-053-243-6	Sequence 6, Appli
198	17	1.1	17	1	US-08-266-414-4	Sequence 4, Appli
c 199	17	1.1	17	1	US-08-242-403A-66	Sequence 66, Appl
c 200	17	1.1	17	1	US-08-540-104-7	Sequence 7, Appli
c 201	17	1.1	17	1	US-08-620-717A-7	Sequence 7, Appli
c 202	17	1.1	17	1	US-08-774-128-66	Sequence 66, Appl
c 203	17	1.1	17	1	US-08-894-483-2	Sequence 2, Appli
204	17	1.1	17	1	US-08-979-586-2	Sequence 2, Appli
205	17	1.1	17	1	US-09-577-640-2	Sequence 2, Appli
206	17	1.1	17	1	US-10-085-871C-7	Sequence 7, Appli
c 207	17	1.1	17	1	US-09-751-654-1	Sequence 1, Appli
c 208	17	1.1	17	1	US-09-998-551E-9	Sequence 9, Appli
c 209	17	1.1	17	1	US-09-860-200F-9	Sequence 9, Appli
c 210	17	1.1	17	1	PCT-US95-05602-66	Sequence 66, Appl
c 211	17	1.1	17	1	PCT-US95-05816-66	Sequence 66, Appl
c 212	16.6	1.1	17	1	US-08-665-565B-6	Sequence 6, Appli
c 213	16.6	1.1	17	1	US-09-034-724-6	Sequence 6, Appli
c 214	16.6	1.1	17	1	US-09-437-905-6	Sequence 6, Appli
c 215	16.6	1.1	17	1	US-10-085-871C-4	Sequence 4, Appli
216	16.2	1.1	17	1	US-09-342-579-4	Sequence 4, Appli
217	16.2	1.1	17	1	US-09-617-854A-4	Sequence 4, Appli
218	16.2	1.1	17	1	US-09-648-004-30	Sequence 30, Appl
219	16.2	1.1	17	1	US-09-716-865-26	Sequence 26, Appl
220	16.2	1.1	17	1	US-09-735-567-10	Sequence 10, Appl
c 221	16.2	1.1	17	1	US-09-735-567-15	Sequence 15, Appl
222	16.2	1.1	17	1	US-10-272-419-30	Sequence 30, Appl
223	16.2	1.1	17	1	US-10-007-527A-11	Sequence 11, Appl
224	16	1.0	16	1	US-08-498-402-10	Sequence 10, Appl
225	16	1.0	16	1	US-08-498-402-13	Sequence 13, Appl
226	16	1.0	16	1	US-08-640-378-8	Sequence 8, Appli
227	16	1.0	16	1	US-08-757-653-156	Sequence 156, App
228	16	1.0	16	1	US-08-953-171-36	Sequence 36, Appl
229	16	1.0	16	1	US-09-252-806-8	Sequence 8, Appli
230	16	1.0	16	1	US-09-252-806-9	Sequence 9, Appli
c 231	16	1.0	16	1	US-09-342-579-3	Sequence 3, Appli
c 232	16	1.0	16	1	US-09-368-089-2	Sequence 2, Appli
233	16	1.0	16	1	US-09-398-179-17	Sequence 17, Appl
c 234	16	1.0	16	1	US-09-504-358-34	Sequence 34, Appl
235	16	1.0	16	1	US-08-520-946-156	Sequence 156, App
c 236	16	1.0	16	1	US-09-617-854A-3	Sequence 3, Appli
c 237	16	1.0	16	1	US-09-954-314-34	Sequence 34, Appl
c 238	16	1.0	16	1	US-09-648-004-29	Sequence 29, Appl
239	16	1.0	16	1	US-09-711-508-8	Sequence 8, Appli
240	16	1.0	16	1	US-09-711-508-9	Sequence 9, Appli
c 241	16	1.0	16	1	US-09-716-865-25	Sequence 25, Appl
c 242	16	1.0	16	1	US-09-735-567-9	Sequence 9, Appli
243	16	1.0	16	1	US-09-829-855-6	Sequence 6, Appli
244	16	1.0	16	1	US-09-829-855-68	Sequence 68, Appl
c 245	16	1.0	16	1	US-09-829-855-132	Sequence 132, App

246	16	1.0	16	1	US-09-732-615-17	Sequence 17, Appl
c 247	16	1.0	16	1	US-09-822-763-2	Sequence 2, Appli
248	16	1.0	16	1	US-09-655-378A-156	Sequence 156, App
249	16	1.0	16	1	US-10-085-871C-5	Sequence 5, Appli
c 250	16	1.0	16	1	US-10-230-562-34	Sequence 34, Appl
c 251	16	1.0	16	1	US-10-272-419-29	Sequence 29, Appl
252	16	1.0	16	1	US-10-273-051-17	Sequence 17, Appl
c 253	16	1.0	16	1	US-09-736-151-10	Sequence 10, Appl
c 254	16	1.0	16	1	US-09-736-151-11	Sequence 11, Appl
255	16	1.0	16	1	US-10-808-807-15	Sequence 15, Appl
256	16	1.0	16	1	US-09-860-200F-4	Sequence 4, Appli
c 257	16	1.0	16	1	US-10-007-527A-10	Sequence 10, Appl
258	16	1.0	16	1	PCT-US93-07180-1	Sequence 1, Appli
259	16	1.0	16	1	PCT-US95-10721-10	Sequence 10, Appl
260	16	1.0	16	1	PCT-US95-10721-13	Sequence 13, Appl
261	15.6	1.0	16	1	US-07-744-282C-120	Sequence 120, App
262	15.6	1.0	16	1	US-08-953-171-29	Sequence 29, Appl
263	15.6	1.0	16	1	US-09-193-377B-60	Sequence 60, Appl
264	15.6	1.0	16	1	PCT-US92-06821A-126	Sequence 126, App
c 265	15.2	1.0	16	1	US-08-953-171-26	Sequence 26, Appl
266	15	1.0	15	1	US-07-990-297-19	Sequence 19, Appl
267	15	1.0	15	1	US-07-990-297-21	Sequence 21, Appl
c 268	15	1.0	15	1	US-08-266-414-5	Sequence 5, Appli
269	15	1.0	15	1	US-08-701-290-1	Sequence 1, Appli
270	15	1.0	15	1	US-07-923-871C-11	Sequence 11, Appl
271	15	1.0	15	1	US-08-938-858-7	Sequence 7, Appli
c 272	15	1.0	15	1	US-09-191-099-19	Sequence 19, Appl
273	15	1.0	15	1	US-09-006-597-11	Sequence 11, Appl
c 274	15	1.0	15	1	US-08-953-171-35	Sequence 35, Appl
275	15	1.0	15	1	US-09-252-806-4	Sequence 4, Appli
c 276	15	1.0	15	1	US-09-290-577-2	Sequence 2, Appli
c 277	15	1.0	15	1	US-09-368-089-3	Sequence 3, Appli
c 278	15	1.0	15	1	US-08-943-571-13	Sequence 13, Appl
c 279	15	1.0	15	1	US-09-290-452-2	Sequence 2, Appli
c 280	15	1.0	15	1	US-09-290-338-2	Sequence 2, Appli
c 281	15	1.0	15	1	US-09-504-358-32	Sequence 32, Appl
282	15	1.0	15	1	US-08-461-210-3	Sequence 3, Appli
283	15	1.0	15	1	US-08-461-210-7	Sequence 7, Appli
284	15	1.0	15	1	US-08-461-210-8	Sequence 8, Appli
285	15	1.0	15	1	US-08-461-210-9	Sequence 9, Appli
c 286	15	1.0	15	1	US-09-954-314-32	Sequence 32, Appl
287	15	1.0	15	1	US-09-711-508-4	Sequence 4, Appli
c 288	15	1.0	15	1	US-09-290-000-2	Sequence 2, Appli
c 289	15	1.0	15	1	US-09-954-594A-2	Sequence 2, Appli
c 290	15	1.0	15	1	US-09-732-615-16	Sequence 16, Appl
c 291	15	1.0	15	1	US-09-822-763-3	Sequence 3, Appli
292	15	1.0	15	1	US-10-085-871C-10	Sequence 10, Appl
c 293	15	1.0	15	1	US-10-085-871C-11	Sequence 11, Appl
294	15	1.0	15	1	US-09-921-880-7	Sequence 7, Appli
c 295	15	1.0	15	1	US-09-544-934B-100	Sequence 100, App
c 296	15	1.0	15	1	US-10-230-562-32	Sequence 32, Appl
c 297	15	1.0	15	1	US-10-273-051-16	Sequence 16, Appl
298	15	1.0	15	1	US-09-958-163A-43	Sequence 43, Appl
c 299	15	1.0	15	1	US-09-865-807-2	Sequence 2, Appli
c 300	15	1.0	15	1	US-10-808-807-14	Sequence 14, Appl
c 301	15	1.0	15	1	US-09-860-200F-5	Sequence 5, Appli
302	15	1.0	15	1	PCT-US91-01574-11	Sequence 11, Appl

303	15	1.0	15	1	PCT-US93-11702-19	Sequence 19, Appl
304	15	1.0	15	1	PCT-US93-11702-21	Sequence 21, Appl
c 305	14.6	1.0	15	1	US-08-733-816-3	Sequence 3, Appli
c 306	14.6	1.0	15	1	US-08-892-540-3	Sequence 3, Appli
c 307	14.6	1.0	15	1	US-08-953-171-37	Sequence 37, Appl
c 308	14.6	1.0	15	1	US-10-053-243-7	Sequence 7, Appli